



# Phoenix **Thermal** Supply

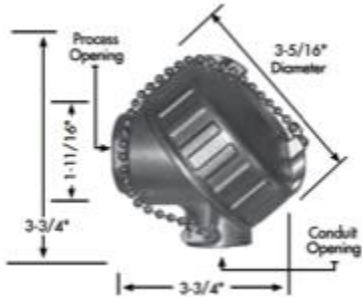
*Connection Heads, Blocks, Nipples, and Springs*

## *Hinged Heads and Blocks*

<b>Hinged Heads - Flip Top</b>																						
 <ul style="list-style-type: none"> <li>• Nema 4 Rated</li> <li>• Flip-Top Design for Easy Access and Closure</li> <li>• Hinge Pins and Latches of Stainless Steel</li> <li>• Silicone Gasket, Temperature Rated to 6000 F.</li> <li>• Provisions for Security Tags</li> <li>• Accepts H741, H742 &amp; H743 Series Blocks</li> <li>• Accepts H684 Series Blocks (H684-6 in polypropylene heads only)</li> <li>• Polypropylene Continuous Rating: 1980 F.</li> <li>• Conduit Port Size: 3/4" NPT</li> </ul>	<table border="1" data-bbox="678 808 1393 1050"> <thead> <tr> <th>Part #</th> <th>Material</th> <th>Process Port Size</th> </tr> </thead> <tbody> <tr> <td>H680-1</td> <td>Aluminum</td> <td>1/8</td> </tr> <tr> <td>H680-4</td> <td>Aluminum</td> <td>1/2</td> </tr> <tr> <td>H680-6</td> <td>Aluminum</td> <td>3/4</td> </tr> <tr> <td>H680-8</td> <td>Aluminum</td> <td>1</td> </tr> <tr> <td>H682-1</td> <td>FDA White Polypropylene</td> <td>1/8</td> </tr> <tr> <td>H682-4</td> <td>FDA White Polypropylene</td> <td>1/2</td> </tr> </tbody> </table>	Part #	Material	Process Port Size	H680-1	Aluminum	1/8	H680-4	Aluminum	1/2	H680-6	Aluminum	3/4	H680-8	Aluminum	1	H682-1	FDA White Polypropylene	1/8	H682-4	FDA White Polypropylene	1/2
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H682-1	FDA White Polypropylene	1/8																				
H682-4	FDA White Polypropylene	1/2																				
<b>Plastic Terminal Blocks</b>																						
 <ul style="list-style-type: none"> <li>• Will Fit H701 - H709 Heads</li> <li>• Will Fit H680, 682 &amp; H683 Series Heads</li> <li>• Stepped Center Hole for Spring Loading</li> </ul>	<table border="1" data-bbox="889 1453 1182 1633"> <thead> <tr> <th colspan="2">PART NUMBERS</th> </tr> </thead> <tbody> <tr> <td>H684-2</td> <td>2 Terminal</td> </tr> <tr> <td>H684-3</td> <td>3 Terminal</td> </tr> <tr> <td>H684-6</td> <td>6 Terminal</td> </tr> </tbody> </table>	PART NUMBERS		H684-2	2 Terminal	H684-3	3 Terminal	H684-6	6 Terminal													
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# Phoenix Thermal Supply

## Aluminum Screw Cover Thermocouple Heads & Blocks

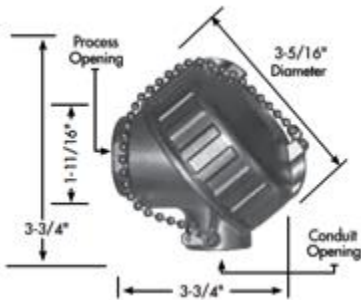


- Meets NEMA 4 requirements for indoor/outdoor nonhazardous use
- 825F Graphite Gasket

### DIE CAST ALUMINUM SCREW COVER T/C HEADS

Process Opening Size	Thermocouple Head & Cap Without Block	Complete Head and Block Assembly					
		H741 Single Block	H742 Duplex Block	Triplex Block			
				2-Term	3-Term	4-Term	6 Term
1/8" NPT	H701	H711	H721	H731-2	H731-3	H731-4	H731-6
1/2" NPT	H704	H714	H724	H734-2	H734-3	H734-4	H734-6
3/4" NPT	H705	H715	H725	H735-2	H735-3	H735-4	H735-6
1" NPT	H706	H716	H726	H736-2	H736-3	H736-4	H736-6

## Cast Iron Screw Cover Thermocouple Heads & Blocks



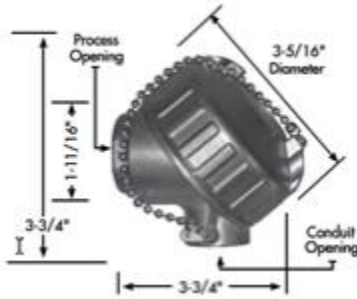
- Meets NEMA 4 requirements for indoor/outdoor nonhazardous use
- 825F Graphite Gasket

### CAST IRON SCREW COVER T/C HEADS

Process Opening Size	Thermocouple Head & Cap Without Block	Complete Head and Block Assembly					
		H741 Single Block	H742 Duplex Block	Triplex Block			
				2-Term	3-Term	4-Term	6 Term
1/2" NPT	H707	H717	H727	H737-2	H737-3	H737-4	H737-6
3/4" NPT	H708	H718	H728	H738-2	H738-3	H738-4	H738-6
1" NPT	H709	H719	H729	H739-2	H739-3	H739-4	H739-6

# Phoenix **Thermal** Supply

## Stainless Steel Screw Cover Thermocouple Heads & Blocks



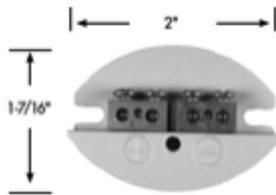
- Meets NEMA 4X. FDA requirements for indoor/outdoor non-hazardous use
- 825F Graphite Gasket

### STAINLESS STEEL SCREW COVER T/C HEADS

Process Opening Size	Thermocouple Head & Cap Without Block	Complete Head and Block Assembly					
		H741 Single Block	H742 Duplex Block	Triplex Block			
				2-Term	3-Term	4-Term	6-Term
1/2" NPT	H702	H712	H722	H732-2	H732-3	H732-4	H732-6
3/4" NPT	H703	H713	H723	H733-2	H733-3	H733-4	H733-6

## Terminal Blocks

### 11/16" Thick Single Block Brass Terminals



PART NUMBERS

H741  
H695 Single Block, Brass Terminals




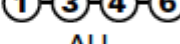


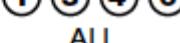


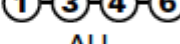


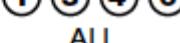


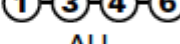


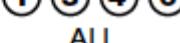
### 1-5/32" Thick Duplex Block Brass Terminals





PART NUMBER

H742

# Phoenix **Thermal** Supply




7/8" Thick Triplex Block																									
	<table border="1" data-bbox="836 380 1263 695"> <thead> <tr> <th colspan="2" data-bbox="836 380 1263 464">TRIPLEX BLOCK BRASS TERMINAL</th> </tr> <tr> <th data-bbox="836 464 1019 533">Part Numbers</th> <th data-bbox="1019 464 1263 533">Terminal Positions As Supplied</th> </tr> </thead> <tbody> <tr> <td data-bbox="836 533 1019 575">H743-2</td> <td data-bbox="1019 533 1263 575">  </td> </tr> <tr> <td data-bbox="836 575 1019 617">H743-3</td> <td data-bbox="1019 575 1263 617">  </td> </tr> <tr> <td data-bbox="836 617 1019 659">H743-4</td> <td data-bbox="1019 617 1263 659">  </td> </tr> <tr> <td data-bbox="836 659 1019 695">H743-6</td> <td data-bbox="1019 659 1263 695">ALL</td> </tr> </tbody> </table> <table border="1" data-bbox="836 730 1263 1045"> <thead> <tr> <th colspan="2" data-bbox="836 730 1263 814">TRIPLEX BLOCK S/S TERMINAL</th> </tr> <tr> <th data-bbox="836 814 1019 884">Part Numbers</th> <th data-bbox="1019 814 1263 884">Terminal Positions As Supplied</th> </tr> </thead> <tbody> <tr> <td data-bbox="836 884 1019 926">H743-2-SS</td> <td data-bbox="1019 884 1263 926">  </td> </tr> <tr> <td data-bbox="836 926 1019 968">H743-3-SS</td> <td data-bbox="1019 926 1263 968">  </td> </tr> <tr> <td data-bbox="836 968 1019 1010">H743-4-SS</td> <td data-bbox="1019 968 1263 1010">  </td> </tr> <tr> <td data-bbox="836 1010 1019 1045">H743-6-SS</td> <td data-bbox="1019 1010 1263 1045">ALL</td> </tr> </tbody> </table>	TRIPLEX BLOCK BRASS TERMINAL		Part Numbers	Terminal Positions As Supplied	H743-2		H743-3		H743-4		H743-6	ALL	TRIPLEX BLOCK S/S TERMINAL		Part Numbers	Terminal Positions As Supplied	H743-2-SS		H743-3-SS		H743-4-SS		H743-6-SS	ALL
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*Nylon Heads & Hinged Aluminum Heads and Blocks  
(Din Standard)*

<b>Nylon Head – 1/2" x 1/2" NPT</b>	
 <p data-bbox="363 1465 493 1528">Note: UL Rated</p>	<p data-bbox="932 1352 1159 1373">PART NUMBER</p> <p data-bbox="1013 1423 1078 1444">H770</p>
<b>Aluminum Hinged Head 1/2" x 1/2" NPT</b>	
	<p data-bbox="932 1709 1159 1730">PART NUMBER</p> <p data-bbox="1013 1780 1078 1801">H771</p>



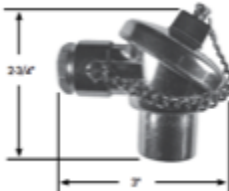
# Phoenix **Thermal** Supply

## *Terminal Blocks*



<b>Ceramic Standard Terminal Blocks</b>	
 <p>No Base Plate</p>	<p>PART NUMBERS</p> <p>H772-2 2 Terminal H772-3 3 Terminal H772-4 4 Terminal</p>
<b>Ceramic Terminal Blocks w/ Solder Hooks</b>	
 <p>No Base Plate (Loose Base Plate Available - Inquire)</p>	<p>PART NUMBERS</p> <p>H773-2-N 2 Terminal H773-4-N 4 Terminal H773-6-N 6 Terminal</p>
<b>Spring Mount Terminal Blocks w/ Solder Hooks</b>	
 <p>Steel Base Plate Spring Mount</p>	<p>PART NUMBERS</p> <p>H774-2 2 Terminal H774-4 4 Terminal H774-6 6 Terminal</p>

## *Heads and Covers*

# Phoenix Thermal Supply

Miniature Nickel-Plated Steel Heads	
 <ul style="list-style-type: none"> <li>• 2, 3, or 4 Terminal</li> <li>• “O” Ring Moisture Seal (Remove for Free Fit if Desired)</li> <li>• Neoprene Cap Grommet Standard <ul style="list-style-type: none"> <li>• 1/4" NPT Process Opening – Standard</li> <li>• 1/8" NPT Process Opening – Optional (add-1 to P/N)</li> <li>• 5/16" Compression Fitting in Cover – Optional (Add "- C" to Part Number)</li> </ul> </li> </ul>	<p style="text-align: center;">PART NUMBERS</p> <p>H791 2 Terminal 1/4" NPT Miniature Head  H791-1 2 Terminal 1/8" NPT Miniature Head  H792 3 Terminal 1/4" NPT Miniature Head  H792-1 3 Terminal 1/8" NPT Miniature Head  H793 4 Terminal 1/4" NPT Miniature Head  H793-1 4 Terminal 1/8" NPT Miniature Head</p>
Micro Heads	
	<p style="text-align: center;">PART NUMBERS</p> <p>H785-U-2 Single Circuit 1/8" Sheath  H785-U-4 Single Circuit 1/4" Sheath</p>
Miniature Die Cast Aluminum Screw Cover	
 <ul style="list-style-type: none"> <li>• Miniature Head</li> <li>• Burnished Die Cast Aluminum</li> <li>• 2 Terminal Block, or 4 Terminal Block</li> <li>• 1/2 NPT Process, 1/2 NPT Conduit</li> <li>• Includes Compression</li> </ul>	<p style="text-align: center;">PART NUMBERS</p> <p>H775-1 Head w/ 2 Terminal Block  H775-2 Head w/ 4 Terminal Block  H776-1 2 Terminal Block only  H776-2 4 Terminal Block only</p>


# Phoenix **Thermal** Supply

<p><b>Miniature Die Cast Aluminum Screw Cover</b></p>																			
<p>Fitting Adaptor • Includes Rubber Ferrule</p>																			
<p><b>Thermoplastic Screw Cover Heads</b></p>																			
	<p>The H781-3 and H781-6 heads are molded from white unpigmented polypropylene. Both heads meet NEMA 4X requirements for indoor or outdoor non-hazardous use to provide protection against dust, rain, splashing water and hose directed water. Although these thermoplastics are attacked by strong acids, they provide good resistance to most acid solutions, alkalines and salt water. They provide good weathering resistance to sunlight. The white polypropylene head is FDA compliant for use in sanitary applications. These heads, and the Bunan O-Ring, have a continuous use temperature rating of 2500 F. The cover is chained to the body with stainless steel chain and pins. All heads have 1/2" NPT process openings and 3/4" NPT conduit openings.</p> <table border="1" data-bbox="672 1136 1390 1394"> <thead> <tr> <th colspan="3">PART NUMBERS</th> </tr> <tr> <th></th> <th>3 Terminal</th> <th>6 Terminal</th> </tr> </thead> <tbody> <tr> <td>White-FDA Approved Polypropylene</td> <td>H781-3</td> <td>H781-6</td> </tr> <tr> <td>Spring Load Strap</td> <td colspan="2">H780/781-S</td> </tr> </tbody> </table>		PART NUMBERS				3 Terminal	6 Terminal	White-FDA Approved Polypropylene	H781-3	H781-6	Spring Load Strap	H780/781-S						
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Spring Load Strap	H780/781-S																		
<p><b>Miniature Plastic Heads</b></p>																			
 <p>Use HBPC series Braze Plugs, HCB Series Brass Compression Fittings, or HCS Series</p>	<table border="1" data-bbox="695 1528 1382 1801"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">PART NUMBERS</th> </tr> <tr> <th colspan="2">Probe Port Thread</th> </tr> <tr> <th></th> <th>1/4" NPT</th> <th>3/8" NPT</th> </tr> </thead> <tbody> <tr> <td>Nylon Head – 350° F.....</td> <td>H782</td> <td>H783</td> </tr> <tr> <td>Glass Filled Thermoset Head – 800° F</td> <td>H782-HT</td> <td></td> </tr> <tr> <td>Wire Grip for .125 – .375 Cord</td> <td>H784</td> <td></td> </tr> </tbody> </table>			PART NUMBERS		Probe Port Thread			1/4" NPT	3/8" NPT	Nylon Head – 350° F.....	H782	H783	Glass Filled Thermoset Head – 800° F	H782-HT		Wire Grip for .125 – .375 Cord	H784	
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<b>Miniature Plastic Heads</b>	
Stainless Compression Fitting for connection to TC Probe.	

## *Nipples and Springs*

<b>Spring-Loaded Nipples: 316 Stainless Steel - 1/2 x 1/2 NPT</b>																						
 <p style="text-align: center;">NOTE:</p> <p style="text-align: center;">Inconel or 17-7PH Spring (Included)</p>	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr style="background-color: black; color: white;"> <th colspan="3">PART NUMBERS For Sheath Diameter</th> </tr> </thead> <tbody> <tr> <td>H752-2</td> <td>Nipple &amp; Spring</td> <td>1/8"</td> </tr> <tr> <td>H752-2-S</td> <td>Spring Only</td> <td>1/8"</td> </tr> <tr> <td>H752-3</td> <td>Nipple &amp; Spring</td> <td>3/16"</td> </tr> <tr> <td>H752-3-S</td> <td>Spring Only</td> <td>3/16"</td> </tr> <tr> <td>H752-4</td> <td>Nipple &amp; Spring</td> <td>1/4"</td> </tr> <tr> <td>H752-4-S</td> <td>Spring Only</td> <td>1/4"</td> </tr> </tbody> </table>	PART NUMBERS For Sheath Diameter			H752-2	Nipple & Spring	1/8"	H752-2-S	Spring Only	1/8"	H752-3	Nipple & Spring	3/16"	H752-3-S	Spring Only	3/16"	H752-4	Nipple & Spring	1/4"	H752-4-S	Spring Only	1/4"
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H752-3-S	Spring Only	3/16"																				
H752-4	Nipple & Spring	1/4"																				
H752-4-S	Spring Only	1/4"																				
<b>Weld/Braze Nipples</b>																						



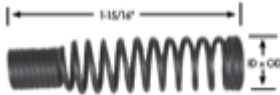
# Phoenix **Thermal** Supply

## Spring-Loaded Nipples: 316 Stainless Steel - 1/2 x 1/2 NPT



P/N	Material	Threads	Sheath
H751-2	316 Stainless	1/2 x 1/2 NPT	1/8"
H751-2-1/4	316 Stainless	1/4 x 1/4 NPT	1/8"
H751-2-C	Carbon Steel	1/2 x 1/2 NPT	1/8"
H751-3	316 Stainless	1/2 x 1/2 NPT	3/16"
H751-3-1/4	316 Stainless	1/4 x 1/4 NPT	3/16"
H751-3-1/4-C	Carbon Steel	1/4 x 1/4 NPT	3/16"
H751-3-C	Carbon Steel	1/2 x 1/2 NPT	3/16"
H751-4	316 Stainless	1/2 x 1/2 NPT	1/4"
H751-4-1/4	316 Stainless	1/4 x 1/4 NPT	1/4"
H751-4-C	Carbon Steel	1/2 x 1/2 NPT	1/4"
H751-6	316 Stainless	1/2 x 1/2 NPT	3/8"
H751-6-C	Carbon Steel	1/2 x 1/2 NPT	3/8"
H751-8	316 Stainless	1/2 x 1/2 NPT	1/2"
H751-8-C	Carbon Steel	1/2 x 1/2 NPT	1/2"
H751-8-1	316 Stainless	1 x 1/2 NPT	1/2"

## Sheath Springs



NOTE:

- Stainless Steel or 17-7 PH
- .440 OD springs fit H743 series blocks
- Other spring loading applications

Part Number	For Sheath	ID x OD (Approx.)
H750-2	1/8	.380 x .440
H750-2-1	1/8	.190 x .250
H750-3	3/16	.360 x .440
H750-4	1/4	.360 x .440
H750-5	5/16	.360 x .440
H750-6	3/8	.440 x .540

Other Connection Heads with specific requirements and Codes are available upon request.